BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of Samudhaya Bhavana building at Kamakshamma layout 1st cross in Chowdeshwari Ward No. 02 of Yelahanka Sub division

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 (KPWD SR 2018-19, Page No.6, Item No.2.3)								
		Cum							
	Rate Analysis								
	Basic Rate	299.00							
	Area Weightage @8%	23.92							
	Total Amount	**322.92**							
	For Column Footing	F1	6	1.20	1.20	1.80	15.55		
	SSM Foundation								
			2	4.20	1.00	1.20	10.08		
			2	6.50	1.00	1.20	15.60		
							41.23		
	30% Deduction for Rock Cutting						-12.37		
	Total Quantity						**28.86**	**322.92**	**9320.25**
2	KSRB 2-2.4 : Excavation 1.5m and above in width in soft rock without blasting for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches not exceeding 1.5 m. in depth, stacking the excavated stuff from edges of excavation with lead upto 50m including cost of explosives, labour and HOM of equipment complete as per specifications. specification. No. KBS 2.1.C / 2.9.4 / 2.18 / 2.19 (KPWD SR 2018-19, Page No.6, Item No.2.6)								
		Cum							
	Rate Analysis								
	Basic Rate	1421.00							
	Area Weightage @8%	113.68							
	Total Amount	**1534.68**							
	Vide Quantity from item no.		1				12.37		
	Total Quantity						**12.37**	**1534.68**	**18983.38**
3	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications. (KPWD SR 2018-19, Page No.7, Item No.2.11)								
		Cum							
	Rate Analysis								
	Basic Rate	121.00							
	Area Weightage @8%	9.68							
	Total Amount	**130.68**							
	Vide Quantity from item no.		1				41.23		
	Total Quantity						**41.23**	**130.68**	**5388.20**

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
4	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892Cum and fine aggregates @ 0.465Cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1,4.2 (KPWD SR 2018-19, Page No.13, Item No.4.2)								
		Cum							
	Rate Analysis								
	Basic Rate	5194.00							
	Area Weightage @8%	415.52							
	Total Amount	5609.52							
	For Column Footing	F1	6	1.20	1.20	0.15	1.30		
	SSM Foundation		2	4.20	1.00	0.15	1.26		
			2	6.50	1.00	0.15	1.95		
	For Flooring		1	6.00	9.00	0.15	8.10		
						Total Quantity	12.61	5609.52	70713.61
5	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (Page No. 14, It No. 4.10 of KPWD S.R 2018-19)								
		Cum							
	Rate Analysis								
	Basic Rate	5812.00							
	Area Weightage @8%	464.96							
	Total Amount	6276.96							
	For Column Footing	F1	6	1.05	1.05	0.75	4.96		
						Total Quantity	4.96	6276.96	31141.57
6	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (Page No. 14, It No. 4.11 of KPWD S.R 2018-19)								
		Cum							
	Rate Analysis								
	Basic Rate	5659.00							
	Area Weightage @8%	452.72							
	Total Amount	6111.72							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Samudayabhavana								
	Column Pedestral	C1	6	0.60	0.60	0.90	1.94		
	Column Upto Plinth	C1	6	0.23	0.45	0.30	0.19		
	Plinth Beam		2	4.20	0.23	0.45	0.87		
			2	6.50	0.23	0.45	1.35		
	Column Upto Roof	C1	6	0.23	0.45	3.00	1.86		
	Over all lintel		2	4.00	0.23	0.15	0.28		
			2	7.00	0.23	0.15	0.48		
	Cills								
	Window, W		2	1.40	0.23	0.10	0.06		
	Window, W1		2	1.00	0.23	0.10	0.05		
	Roof Beam	B1	3	4.20	0.30	0.30	1.13		
		B2	2	6.50	0.30	0.30	1.17		
	Roof Slab		1	5.40	7.70	0.15	6.24		
							Total Quantity	**15.62**	**6111.72**	**95456.51**
7	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and as per directions of the Engineer-in-charge. Specification No. KBS 4.6.3(Item no: 4.46.2, Page no: 18 of KPWD S.R 2018-19).								
		Tonne							
	Rate Analysis								
	Basic Rate	70966.00							
	Area Weightage @8%	5677.28							
	Total Amount	**76643.28**							
	Samudayabhavana								
	Footings @ 70Kg/cum			4.96			0.35		
	Columns @ 200Kg/cum			3.99			0.80		
	Plinth beam @80Kg/cum			2.21			0.18		
	Lintel @ 60Kg/cum			0.76			0.05		
	Cill @ 60Kg/cum			0.11			0.01		
	Roof Beam @ 150Kg/cum			2.30			0.46		
	Roof Slab @ 100Kg/cum			6.24			0.62		
							Total Quantity	**2.46**	**76643.28**	**188527.41**
8	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (Page No. 16, It No. 4.28 of KPWD S.R 2018-19)								
		Sqm							
	Rate Analysis								
	Basic Rate	258.00							
	Area Weightage @8%	20.64							
	Total Amount	**278.64**							
	For Column Footing								
		F1	6	4.20		0.750	18.90		

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
						Total Quantity	18.90	278.64	5266.30
9	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (Page No. 16, It No. 4.32 of KPWD S.R 2018-19)								
		Sqm							
	Rate Analysis								
	Basic Rate	456.00							
	Area Weightage @8%	36.48							
	Total Amount	492.48							
	Samudayabhavana								
	Column Pedestral								
		C1	6	2.40		0.90	12.96		
	Column Upto Plinth								
		C1	6	1.36		0.30	2.45		
	Column Upto Roof								
		C1	6	1.36		3.00	24.48		
						Total Quantity	39.89	492.48	19644.04
10	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (Page No. 17, It No. 4.34 of KPWD S.R 2018-19)								
		Sqm							
	Rate Analysis								
	Basic Rate	292.00							
	Area Weightage @8%	23.36							
	Total Amount	315.36							
	Samudayabhavana								
	Plinth Beam								
			4	4.20		0.45	7.56		
			4	6.50		0.45	11.70		
	Over all lintel								
			4	4.00		0.15	2.40		
			4	7.00		0.15	4.20		
	Cills								
	Window, W		4	1.40		0.10	0.56		
	Window, W1		4	1.00		0.10	0.40		
	Roof Beam								
		B1	3	4.20		0.90	11.34		
		B2	2	6.50		0.90	11.70		
						Total Quantity	49.86	315.36	15723.85
11	KSRB 4-6.9 :Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (Page No. 17, It No. 4.36 of KPWD S.R 2018-19)								
		Sqm							
	Rate Analysis								
	Basic Rate	755.00							
	Area Weightage @8%	60.40							
	Total Amount	815.40							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Samudayabhavana								
	Roof Slab								
			2	5.40		0.15	1.62		
			2	7.70		0.15	2.31		
						Total Quantity	**3.93**	**815.40**	**3204.52**
12	KSRB 4-6.3 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per Specification. Specification No. KBS 4.6.2 (Page No. 16, It No. 4.30 of KPWD S.R 2018-19)								
		Sqm							
	Rate Analysis								
	Basic Rate	440.00							
	Area Weightage @8%	35.20							
	Total Amount	**475.20**							
	Samudayabhavana								
	Roof Slab								
			1	5.40	7.70		41.58		
	Chejja								
			4	1.40	0.60		3.36		
						Total Quantity	**44.94**	**475.20**	**21355.49**
13	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (KPWD SR 2018-19, Page No.25, Item No.5.6)								
		Cum							
	Rate Analysis								
	Basic Rate	4596.00							
	Area Weightage @8%	367.68							
	Total Amount	**4963.68**							
	For Foundation								
	Step-1		2	4.20	0.90	0.60	4.54		
			2	6.50	0.90	0.60	7.02		
	Step-2		2	4.20	0.75	0.45	2.84		
			2	6.50	0.75	0.45	4.39		
	Step-3		2	4.20	0.60	0.45	2.27		
			2	6.50	0.60	0.45	3.51		
	Front Steps		1	3.00	0.60	0.30	0.54		
			1	3.00	0.45	0.30	0.41		
						Total Quantity	**25.50**	**4963.68**	**126581.29**
14	KSRB 6-1.1 :Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 3.5 Newton per sqmm with mud mortar for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications Specification No. KBS 6.2. (KPWD SR 2018-19, Page No.29, Item No.6.1)								
		Cum							
	Rate Analysis								
	Basic Rate	5176.00							

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
	Area Weightage @8%	414.08							
	Total Amount	5590.08							
	For Wall								
			2	4.20	0.23	2.80	5.41		
			2	6.50	0.23	2.80	8.37		
	Deductions								
	Door, D		-1	1.20	0.23	2.10	-0.58		
	Window, W		-2	0.90	0.23	0.90	-0.37		
	Window, W1		-2	0.90	0.23	1.20	-0.50		
						Total Quantity	12.33	5590.08	68940.22
15	KSRB15-3.7 : Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (Page No. 116, It No. 15.15 of KPWD S.R 2018-19)								
		Sqm							
	Rate Analysis								
	Basic Rate	276.00							
	Area Weightage @8%	22.08							
	Total Amount	298.08							
	Samudayabhavana								
	Outside Plastering								
			2	4.20		3.15	26.46		
			2	6.50		3.15	40.95		
	Deductions								
	Door, D		-1	1.20		2.10	-2.52		
	Window, W		-2	0.90		0.90	-1.62		
	Window, W1		-2	0.90		1.20	-2.16		
						Total Quantity	61.11	298.08	18215.67
16	KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (Page No. 116, It No. 15.21 of KPWD S.R 2018-19)								
		Sqm							
	Rate Analysis								
	Basic Rate	235.00							
	Area Weightage @8%	18.80							
	Total Amount	253.80							
	Samudayabhavana								
	Ceiling								
			1	6.00	9.00		54.00		
						Total Quantity	54.00	253.80	13705.20
17	KSRB15-3.4 : Providing 15mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (Page No. 115, It No. 15.12 of KPWD S.R 2018-19)								
		Sqm							
	Rate Analysis								
	Basic Rate	234.00							
	Area Weightage @8%	18.72							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Total Amount	252.72							
	Samudayabhavana								
	Inside Plastering								
			2	6.00		3.10	37.20		
			2	9.00		3.10	55.80		
	Deductions								
	Door, D								
	Window, W		-1	1.20		2.10	-2.52		
	Window, W1		-2	0.90		0.90	-1.62		
			-2	0.90		1.20	-2.16		
						Total Quantity	**86.70**	**252.72**	**21910.82**
18	KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. (Page No. 119, It No. 15.51.1 of KPWD S.R 2018-19)								
	Rate Analysis	**Sqm**							
	Basic Rate	87.00							
	Area Weightage @8%	6.96							
	Total Amount	**93.96**							
	Samudayabhavana								
	Same as the quantity of Plastering								
	Vide Qty of IteM No.	17	16	15			201.81		
							Total Quantity	**201.81**	**93.96**	**18962.07**
19	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12. (Page No. 34, It No. 7.9 of KPWD S.R 2018-19)								
	Rate Analysis	**Kgs**							
	Basic Rate	95.00							
	Area Weightage @8%	7.60							
	Total Amount	**102.60**							
	Window, W		2	0.90		0.90	1.62		
	Window, W1		2	0.90		1.20	2.16		
							3.78		
							7.56		
			21kgs per Sqm				158.76		
							Total Quantity	**158.76**	**102.60**	**16288.78**
20	KSRB 9.4-1 : Providing Teak wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33. (Page No. 53, It No. 9.10 of KPWD S.R 2018-19)								
	Rate Analysis	**Cum**							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Basic Rate	183979.00							
	Area Weightage @8%	14719.32							
	Total Amount	198698.32							
	Door, D								
			1	6.60	0.15	0.075	0.07		
							Total Quantity	0.07	196645.32	14600.92
21	KSRB 9.5-1 : Providing and fixing in position fully panelled Teak wood shutters for doors, styles and rails of 40mm, thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34 (Page No.53, It No. 9.14 of KPWD S.R 2018-19)								
	Rate Analysis	Sqm							
	Basic Rate	8108.00							
	Area Weightage @8%	648.64							
	Total Amount	8756.64							
	Door, D								
			1	1.20		2.10	2.52		
							Total Quantity	2.52	8756.64	22066.73
22	KSRB 15-17.6 : Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. (Page No.121, It No. 15.60.1 of KPWD S.R 2018-19)								
	Rate Analysis	Sqm							
	Basic Rate	97.00							
	Area Weightage @8%	7.76							
	Total Amount	104.76							
	Door, D								
			2	1.20		2.10	5.04		
							Total Quantity	5.04	104.76	527.99
23	KSRB 15-17.8 : Extra over Item No. 15-17.6 for applying every subsequent coat of enamel paint to give an even shade after cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. (Page No.121, It No. 15.60.2 of KPWD S.R 2018-19)								
	Rate Analysis	Sqm							
	Basic Rate	55.00							
	Area Weightage @8%	4.40							
	Total Amount	59.40							
	Door, D								
			2	1.20		2.10	5.04		
							Total Quantity	5.04	59.40	299.38

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate in Rs	Amount in Rs
				m	m	m			
24	KSRB 10-3 : Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications. (P.No. 68, I.No. 10.2 of PWD SR 2018-19)								
	Rate Analysis	**Sqm**							
	Basic Rate	1006.00							
	Area Weightage @8%	80.48							
	Total Amount	**1086.48**							
	Terrace								
			1	6.60	9.50		62.70		
						Total Quantity	**62.70**	**1086.48**	**68122.30**
	Add GST @ 12% for 2018-19 KPWD SR items							**Sub Total 1 Rs.**	**874946.50**
	Bescom Deposit								**104993.58**
	Sub Total 2 Rs.								**20000.00**
	Miscellaneous & Rounding off								**999940.08**
	Total Rs.								**59.92**
									1000000.00

CERTIFICATE:

1 The work spot has been inspected by me and the work is found to be necessar
2 The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2018-2019
3 The Provisions made in the estimate are quite necessary and adequate.
4 The area comes with in the BBMP limits.

Assistant Engineer
Ward 02
BBMP

Assistant Executive Engineer
Yelahanka Sub Division
BBMP

Executive Engineer
Yelahanka Division
BBMP

Administrative Approval

Accorded For 10.00 lakhs
Head of A/C P-1771
CER NO : 265 **Dt:** 27/03/2020

TA ICE cum

TECHNICALLY SANCTIONED FOR Rs. 10.00 Lakhs
Rupees Ten lakhs only
Under 2019-20 POW Zonal Works
P-1771
Registered as CE ( ) No. 9 9
Subject to conditions contained in enclosed memo EE ( ) No. ...../9/
DL EE(YNK)/T-5.16/2020-21 Estimate A/ Sanctioned No.
Dated 12/04/2020 Rs. 10.00 lakhs.